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L3 16 L1 AND L2

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L3 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:148971 CAPLUS
DOCUMENT NUMBER: 144:231584
TITLE: Production of L-cysteine or L-methionine by genetically
engineered strains of *Corynebacterium glutamicum*
INVENTOR(S): Sauer, Uwe; Mampel, Joerg; Schroeder, Hartwig;
Haefner, Stefan; Zelder, Oskar; Herold, Andrea;
Klopprogge, Corinna
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004035052	A1	20060216	DE 2004-102004035052	20040720
WO 2006008152	A1	20060126	WO 2005-EP7925	20050720
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2004-102004035052A 20040720
AB The present invention provides strains of *Corynebacterium glutamicum* that
are enhanced for the production of L-cysteine or L-methionine. Specifically,
the invention provides mutant strains of *Corynebacterium glutamicum* in
which one or more transcription factor genes has been disrupted.

L3 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1042417 CAPLUS
DOCUMENT NUMBER: 143:324892
TITLE: Process for the production of L-amino acids using
coryneform bacteria
INVENTOR(S): Bathe, Brigitte; Schischka, Natalie; Pfefferle, Walter
PATENT ASSIGNEE(S): Degussa A.-G., Germany
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005090589	A2	20050929	WO 2005-EP2652	20050311
WO 2005090589	A3	20051201		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 102004013503 A1 20051006 DE 2004-102004013503 20040318

PRIORITY APPLN. INFO.: DE 2004-102004013503A 20040318

AB The invention provides a process and engineered **coryneform** bacteria for the production of the desired L-amino acids L-methionine and L-lysine. In particular the process comprises several steps:.. Fermentation of

a **coryneform** bacterium producing the desired L-amino acid, in which at least one or more genes encoding transcription regulators smtB, cgl1, hspR, cgl2, cebR, cgl3, gatR, glcR, tcmR, smtB2, dtxR, degA, galR, tipA2, malI, cgl4, arsR, merR, hrcA, glpR2, lexA, ccpA3 and degA2, have been attenuated, excluded or expressed at a low level. Concentration of the desired L-amino acid in the medium or in the cells of the bacteria followed by the isolation of the L-amino acid. The invention also provides the use of bacteria in which further genes of the biosynthesis pathway of the desired L-amino acid are addnl. enhanced, or in which the metabolic pathways that reduce the formation of the desired L-amino acid are at least partially excluded.

L3 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:998620 CAPLUS

DOCUMENT NUMBER: 143:284832

TITLE: Fermentative production of L-methionine using recombinant microorganisms defective in methionine uptake

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: Ger. Offen., 20 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004009454	A1	20050915	DE 2004-102004009454	20040227
WO 2005085463	A1	20050915	WO 2005-EP242	20050113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: DE 2004-102004009454A 20040227

AB A the invention provides recombinant microorganisms, preferably **coryneform** bacteria, for the fermentative production of L-amino acids, in particular L-methionine. In particular, a microorganism is selected in which one or more of the genes yaeC, abc, or yaeE coding for methionine uptake system MetD2 are attenuated.

L3 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:984087 CAPLUS

DOCUMENT NUMBER: 143:261392

TITLE: Method for producing L-amino acids with recombinant **coryneform** bacteria having reduced

INVENTOR(S): transcription factor AsuR activity
 Koch, Daniel; Rueckert, Christian; Kalinowski, Joern;
 Puehler, Alfred; Bathe, Brigitte

PATENT ASSIGNEE(S): Degussa A.-G., Germany
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
WO 2005083082	A1	20050909	WO 2005-EP243	20050113			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	DE 102004009453	A1	20050915	DE 2004-102004009453	20040227	
PRIORITY APPLN. INFO.:						DE 2004-102004009453A	20040227
AB	The invention relates to a method for producing L-amino acids, in particular L-methionine by fermentation, wherein coryneform bacteria producing desired L-amino acids are fermented and an AsuR regulator is deactivated or expressed at a low level. The recombinant bacteria, e.g., <i>Corynebacterium glutamicum</i> , are also disclosed.						
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT					

L3 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:198192 CAPLUS
 DOCUMENT NUMBER: 140:248217
 TITLE: Fermentative production of L-methionine with recombinant *Corynebacterium glutamicum* overexpressing gene *metF*
 INVENTOR(S): Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 97 pp.
 CODEN: GWXXBX

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10239308	A1	20040311	DE 2002-10239308	20020827
WO 2004024931	A2	20040325	WO 2003-EP9451	20030826
WO 2004024931	A3	20040422		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,			

FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003258667	A1	20040430	AU 2003-258667	20030826
EP 1537223	A2	20050608	EP 2003-794943	20030826
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003013760	A	20050712	BR 2003-13760	20030826
JP 2005537023	T2	20051208	JP 2004-535172	20030826
US 2006068476	A1	20060330	US 2005-525907	20050225
PRIORITY APPLN. INFO.:			DE 2002-10239308	A 20020827
			WO 2003-EP9451	W 20030826

AB The invention provides a process for the fermentative production of L-methionine bacteria, in which for a methylenetetrahydrofolate reductase *metF* gene coding nucleotide sequence is expressed. Numerous microbial sources for the *metY* gene, including bacteria, yeast and fungi, are claimed. In particular, the invention provides a recombinant strain of *Corynebacterium glutamicum* in which one or more of the following genes is overexpressed: *lysC*, *gap*, *pgk*, *pyc*, *tpi*, *metA*, *metB*, *metC*, *glyA*, *metY*, *methH*, *serC*, *serB*, *cysE*, and *hom*. Addnl. one or more of the following genes is attenuated: *thrB*, *ilva*, *thrC*, *ddh*, *pck*, *pgi*, *poxB*, *dapA*, *dapB*, *lysA*.

L3 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:198186 CAPLUS
 DOCUMENT NUMBER: 140:248216
 TITLE: Fermentative production of L-methionine with recombinant *Corynebacterium glutamicum* overexpressing gene *metA*
 INVENTOR(S): Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 96 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10239073	A1	20040311	DE 2002-10239073	20020826
WO 2004024932	A2	20040325	WO 2003-EP9452	20030826
WO 2004024932	A3	20040422		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003264108	A1	20040430	AU 2003-264108	20030826
EP 1537224	A2	20050608	EP 2003-794944	20030826
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003013759	A	20050621	BR 2003-13759	20030826
JP 2005537024	T2	20051208	JP 2004-535173	20030826
US 2006003425	A1	20060105	US 2005-525674	20050224
PRIORITY APPLN. INFO.:			DE 2002-10239073	A 20020826
			WO 2003-EP9452	W 20030826

AB The invention provides a process for the fermentative production of L-methionine bacteria, in which for a homoserine O-acetyltransferase

metA gene coding nucleotide sequence is expressed. Numerous microbial sources for the metY gene, including bacteria, yeast and fungi, are claimed. In particular, the invention provides a recombinant strain of Corynebacterium glutamicum in which one or more of the following genes is overexpressed: lysC, gap, pgk, pyc, tpi, metY, metB, metC, glyA, metF, metH, serC, serB, cysE, and hom. Addnl. one or more of the following genes is attenuated: thrB, ilva, thrC, ddh, pck, pgi, poxB, dapA, dapB, lysA.

L3 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:177945 CAPLUS
 DOCUMENT NUMBER: 140:230550
 TITLE: Fermentative production of L-methionine with recombinant Corynebacterium glutamicum overexpressing gene metY
 INVENTOR(S): Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 134 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10239082	A1	20040304	DE 2002-10239082	20020826
WO 2004024933	A2	20040325	WO 2003-EP9453	20030826
WO 2004024933	A3	20040422		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003264109	A1	20040430	AU 2003-264109	20030826
EP 1537225	A2	20050608	EP 2003-794945	20030826
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003013758	A	20050621	BR 2003-13758	20030826
JP 2005537025	T2	20051208	JP 2004-535174	20030826
CN 1756847	A	20060405	CN 2003-820452	20030826
US 2005260721	A1	20051124	US 2005-525710	20050224
PRIORITY APPLN. INFO.:			DE 2002-10239082	A 20020826
			WO 2003-EP9453	W 20030826

AB The invention provides a process for the fermentative production of L-methionine bacteria, in which for a O-acetyl-homoserine sulphhydrolase metY gene coding nucleotide sequence is expressed. Numerous microbial sources for the metY gene, including bacteria, yeast and fungi, are claimed. In particular, the invention provides a recombinant strain of Corynebacterium glutamicum in which one or more of the following genes is overexpressed: lysC, gap, pgk, pyc, tpi, metA, metB, metC, glyA, metF, metH, serC, serB, cysE, and hom. Addnl. one or more of the following genes is attenuated: thrB, ilva, thrC, ddh, pck, pgi, poxB, dapA, dapB, lysA.

L3 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:837302 CAPLUS
 DOCUMENT NUMBER: 139:334001

TITLE: Methionine synthase genes and bacteria for
 L-methionine production
 INVENTOR(S): Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna;
 Schroeder, Hartwig; Haefner, Stefan
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 304 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003087386	A2	20031023	WO 2003-EP4010	20030416
WO 2003087386	A3	20040408		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10217058	A1	20031127	DE 2002-10217058	20020417
CA 2481761	AA	20031023	CA 2003-2481761	20030416
AU 2003229691	A1	20031027	AU 2003-229691	20030416
EP 1497443	A2	20050119	EP 2003-722500	20030416
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005522218	T2	20050728	JP 2003-584324	20030416
CN 1653186	A	20050810	CN 2003-811344	20030416
PRIORITY APPLN. INFO.:			DE 2002-10217058	A 20020417
			WO 2003-EP4010	W 20030416

AB The invention relates to methods for L-methionine, by fermentation, using
 bacteria, in which a nucleotide sequence that codes for a methionine
 synthase (metF) (sic) gene is expressed.

L3 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:221847 CAPLUS
 DOCUMENT NUMBER: 138:237017
 TITLE: Methionine production by *Corynebacterium glutamicum*
 with attenuated metK and brnQ genes
 INVENTOR(S): Bathe, Brigitte; Pfefferle, Walter; Huthmacher, Klaus
 PATENT ASSIGNEE(S): Degussa AG, Germany
 SOURCE: PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003023044	A2	20030320	WO 2002-EP9043	20020813
WO 2003023044	A3	20030814		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10144493 A1 20030703 DE 2001-10144493 20010911
 EP 1425406 A2 20040609 EP 2002-760318 20020813
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 PRIORITY APPLN. INFO.: DE 2001-10144493 A 20010911
 WO 2002-EP9043 W 20020813
AB A process and **coryneform** bacterium is provided for the production of L-amino acids in which the following steps are carried out: Fermentation of the **coryneform** bacteria producing the desired L-amino acid, in which at least the gene coding for S-adenosylmethionine synthetase (**metK**) and/or the gene coding for a for branched-chain amino acid transport protein (**brnQ**) is/are attenuated. Enrichment of the desired L-amino acid in the medium or in the bacterial cells, followed by isolation of the L-amino acid. In addition, expression of the genes in the biosynthetic pathway for the desired L-amino acid are enhanced, while at the same time genes that code for the biosynthesis of other amino acids are attenuated. In particular the process provides **coryneform** bacteria producing the desired L-amino acid, in which one or more of the following genes are overexpressed: **lysC**, **gap**, **pyc**, **zwf**, **mgo**, **zwal**, **tpi**, **pgk**, **hom**, **metA**, **metB**, **metE**, **metH**, **aecD**, **glyA**, and **metY**. At the same time one or more of the following genes are are attenuated of eliminated: **thrB**, **ilvA**, **thrC**, **ddh**, **ccpA1**, **pck**, **pgi**, **poxB**, **fba**, and **zwa2**. In a preferred embodiment, **Corynebacterium glutamicum** strain ATCC 21608 is provided for the fermentative production of L-methionine.

L3 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:927599 CAPLUS
 DOCUMENT NUMBER: 138:12053
 TITLE: Cloning of **Corynebacterium glutamicum** **metD** gene encoding a transcription repressor for L-methionine biosynthesis enzymes and use thereof in related fermentation
 INVENTOR(S): Rey, Daniel; Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Bathe, Brigitte; Huthmacher, Klaus; Pfefferle, Walter
 PATENT ASSIGNEE(S): Degussa AG, Germany
 SOURCE: PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002097096	A2	20021205	WO 2002-EP5152	20020510
WO 2002097096	A3	20031211		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10126164	A1	20021205	DE 2001-10126164	20010530
EP 1390504	A2	20040225	EP 2002-740582	20020510
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	US 2003092026	A1	20030515	US 2002-156856	20020530
	US 2005074802	A1	20050407	US 2004-936597	20040909
PRIORITY APPLN. INFO.:				DE 2001-10126164	A 20010530
				WO 2002-EP5152	W 20020510
				US 2002-156856	A3 20020530

AB The *metD* gene of *Corynebacterium glutamicum* ATCC13032 encoding a transcription regulator with repression function for genes which are involved in L-amino acid biosyntheses, in particular the biosynthesis of L-methionine, are cloned. The expression vectors containing *metD* gene with deletion mutations are constructed for *metD* gene knockout or attenuation in the *Corynebacteria*, which improves the production of L-methionine in fermentation

Methods and culture media for fermentative preparation of L-methionine with recombinant bacterial strains transformed with these vectors are also provided. Transformation of gene *metD* expression vector pK18mobsacBmetDdel into a *Corynebacterium* host increase the L-methionine production yield from 3 g methionine/L at 12.2 OD₆₆₀ to 20 g methionine/L at 14.8 OD₆₆₀. The fermentatively prepared L-methionine can be used as animal feedstuff additive.

L3 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:172115 CAPLUS

DOCUMENT NUMBER: 136:231338

TITLE: Sequences of metY gene from corynebacteria and use thereof in production of L-lysine or L-methionine

INVENTOR(S): Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus; Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael; Greissinger, Dieter; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

DOCUMENT TYPE: **INTERVIEW** LANGUAGE: **English**

FAMILY ACC. NUM. COUNT: 1

PATENT INFO. FORM

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018613	A1	20020307	WO 2001-EP8223	20010717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109690	A1	20020314	DE 2001-10109690	20010228
AU 2001089666	A5	20020313	AU 2001-89666	20010717
EP 1313871	A1	20030528	EP 2001-969400	20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002110878	A1	20020815	US 2001-919932	20010802
US 6812016	B2	20041102		
US 2005064551	A1	20050324	US 2004-838245	20040505
PRIORITY APPLN. INFO.:			DE 2000-10043334	A 20000902
			DE 2001-10109690	A 20010228
			US 2001-294252P	P 20010531
			WO 2001-EP8223	W 20010717
			US 2001-919932	A1 20010802

AB The metY gene of *Corynebacterium glutamicum* ATCC13032 encoding O-acetyl

homoserine sulfhydrylase is cloned for use in increasing the efficiency of fermentation of L-lysine or L-methionine by **coryneform** bacteria. Methods and culture media for fermentative preparation of L-lysine or L-methionine with recombinant bacterial strains transformed with these vectors are also provided. Enhancement of the **metY** gene expression by **metY** shuttle vector increased the yield of L-lysine in a *Corynebacterium* host from 15.7 g lysine/L at 10.6 OD660 to 16.1 g lysine/L at 9.5 OD660 and L-methionine in a *Corynebacterium* host from 1.4 g methionine/L at 6.6 OD660 to 16.0 g methionine/L at 8.3 OD660. The fermentatively prepared L-methionine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:171942 CAPLUS

DOCUMENT NUMBER: 136:231333

TITLE: Sequences of **metR** and **metZ** gene from *corynebacteria* and use thereof in synthesis of L-methionine

INVENTOR(S): Bathe, Brigitte; Pfefferle, Walter; Huthmacher, Klaus; Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael; Greissinger, Dieter; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018430	A2	20020307	WO 2001-EP8221	20010717
WO 2002018430	A3	20020704		
WO 2002018430	C1	20040304		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109688	A1	20020314	DE 2001-10109688	20010228
AU 2001081984	A5	20020313	AU 2001-81984	20010717
EP 1313757	A2	20030528	EP 2001-960503	20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002102664	A1	20020801	US 2001-919831	20010802
US 6815196	B2	20041109		
PRIORITY APPLN. INFO.:			DE 2000-10043335	A 20000902
			DE 2001-10109688	A 20010228
			US 2001-294224P	P 20010531
			WO 2001-EP8221	W 20010717

AB The **metR** and **metZ** genes of *Corynebacterium glutamicum* ATCC13032 encoding transcription activator and O-succinyl homoserine sulfhydrylase, resp., are cloned for use in increasing the efficiency of fermentation of L-methionine by **coryneform** bacteria. Methods and culture media for fermentative preparation of L-methionine with recombinant bacterial strains transformed with these vectors are also provided. Deletion of the **metR** and **metZ** genes by integration mutagenesis using **metR** and **metZ** exchange

vector increased the yield of methionine in a *Corynebacterium* host from 1.5 g methionine/L at 11.3 OD660 to 9.4 g methionine/L at 12.0 OD660. The fermentatively prepared L-methionine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

L3 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:107385 CAPLUS

DOCUMENT NUMBER: 136:149989

TITLE: The *metH* gene of *Corynebacterium glutamicum* encoding homocysteine methyltransferase II and its use in increasing yields of L-methionine in fermentation

INVENTOR(S): Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus; Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael; Greissinger, Dieter; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010209	A1	20020207	WO 2001-EP8220	20010717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109687	A1	20020221	DE 2001-10109687	20010228
EP 1307475	A1	20030507	EP 2001-965135	20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002048793	A1	20020425	US 2001-919891	20010802
US 6958228	B2	20051025		
US 2005233373	A1	20051020	US 2005-155656	20050620
PRIORITY APPLN. INFO.:			DE 2000-10038050	A 20000802
			DE 2001-10109687	A 20010228
			US 2001-294251P	P 20010531
			WO 2001-EP8220	W 20010717
			US 2001-919891	A3 20010802

AB The *metH* gene of *Corynebacterium glutamicum* ATCC13032 encoding methylene tetrahydrofolate reductase is cloned for use in increasing the efficiency of fermentation of L-methionine by *coryneform* bacteria. The expression vectors containing *metH* gene and *metA* and *metY* gene are constructed. Methods and culture media for fermentative preparation of L-methionine with recombinant bacterial strains transformed with these vectors are also provided. Transformation of gene *metH* expression vector pCREmetH into a *Corynebacterium* host increase the L-methionine production yield from 1.4 g methionine/L at 12.3 OD660 to 5.3 g methionine/L at 14.3 OD660. The fermentatively prepared L-methionine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:107384 CAPLUS

DOCUMENT NUMBER: 136:149988
 TITLE: The metE gene of *Corynebacterium glutamicum* encoding homocysteine methyltransferase I and its use in increasing yields of L-methionine in fermentation
 INVENTOR(S): Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus; Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael; Greissinger, Dieter; Thierbach, Georg
 PATENT ASSIGNEE(S): Degussa A.-G., Germany
 SOURCE: PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010208	A1	20020207	WO 2001-EP8219	20010717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109689	A1	20020221	DE 2001-10109689	20010228
EP 1307476	A1	20030507	EP 2001-967191	20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002110877	A1	20020815	US 2001-919835	20010802
US 6942996	B2	20050913		
US 2005266535	A1	20051201	US 2005-168476	20050629
PRIORITY APPLN. INFO.:			DE 2000-10038023	A 20000802
			DE 2001-10109689	A 20010228
			US 2001-294250P	P 20010531
			WO 2001-EP8219	W 20010717
			US 2001-919835	A3 20010802

AB The metE gene of *Corynebacterium glutamicum* ATCC13032 encoding homocysteine methyltransferase I is cloned for use in increasing the efficiency of fermentation of L-methionine by coryneform bacteria. The expression vectors containing metE gene and metA and metY gene are constructed. Methods and culture media for fermentative preparation of L-methionine with recombinant bacterial strains transformed with these vectors are also provided. The fermentatively prepared L-methionine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:107382 CAPLUS
 DOCUMENT NUMBER: 136:149987
 TITLE: The metF gene of *Corynebacterium glutamicum* encoding methylenetetrahydrofolate reductase and its use in increasing yields of L-methionine in fermentation
 INVENTOR(S): Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus; Binder, Michael; Greissinger, Dieter; Thierbach, Georg
 PATENT ASSIGNEE(S): Degussa A.-G., Germany
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010206	A2	20020207	WO 2001-EP8224	20010717
WO 2002010206	A3	20020502		
W: AE, AG, AL, AM, AT, AU, AZ, CO, CR, CU, CZ, DE, DK, DM, GM, HR, HU, ID, IL, IN, IS, LS, LT, LU, LV, MA, MD, MG, RO, RU, SD, SE, SG, SI, SK, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	BA, BB, BG, BR, BY, BZ, CA, CH, CN, DZ, EC, EE, ES, FI, GB, GD, GE, GH, KP, KR, KZ, LC, LK, LR, MW, MX, MZ, NO, NZ, PL, PT, TM, TR, TT, TZ, UA, UG, UZ,			
RW: GH, GM, KE, LS, MW, MZ, SD, DE, DK, ES, FI, FR, GB, GR, BJ, CF, CG, CI, CM, GA, GN,	IE, IT, LU, MC, NL, PT, SE, TR, BF, CY, AL, TR			
DE 10109686	A1	20020221	DE 2001-10109686	20010228
EP 1307477	A2	20030507	EP 2001-967192	20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	IT, LI, LU, NL, SE, MC, PT,			
US 2002049305	A1	20020425	US 2001-919935	20010802
PRIORITY APPLN. INFO.:			DE 2000-10053942	A 20000802
			DE 2001-10109686	A 20010228
			US 2001-294279P	P 20010531
			WO 2001-EP8224	W 20010717

AB The metF gene of *Corynebacterium glutamicum* ATCC13032 encoding methylene tetrahydrofolate reductase is cloned for use in increasing the efficiency of fermentation of L-methionine by *coryneform* bacteria. The expression vectors containing metF gene and metA and metY gene are constructed. Methods and culture media for fermentative preparation of L-methionine with recombinant bacterial strains transformed with these vectors are also provided. Transformation of gene metF expression vector pCREmetF into a *Corynebacterium* host increase the L-methionine production yield from 1.4 g methionine/L at 10.3 OD660 to 7.3 g methionine/L at 11.2 OD660. The fermentatively prepared L-methionine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

L3 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:65385 CAPLUS
DOCUMENT NUMBER: 96:65385
TITLE: Bacterial catabolism of isophthalate and terephthalate
AUTHOR(S): Elmorsi, Elmorsi A.; Hopper, David J.
CORPORATE SOURCE: Dep. Agric. Chem., Elminya Univ., Elminya, Egypt
SOURCE: Biochemical Society Transactions (1981), 9(5), 431
CODEN: BCSTB5; ISSN: 0300-5127

DOCUMENT TYPE: Journal
LANGUAGE: English

AB A *Pseudomonas* species isolated from soil grew on either isophthalate (I) or terephthalate (II) as C source, whereas a Gram-pos. *coryneform* bacterium isolated from soil grew only on I. For both organisms, protocatechuate (III) appeared to be the ring-fission substrate in the degradative pathways for these acids, meta and ortho fission occurring in the *Pseudomonas* and Gram-pos. organisms, resp. The Gram-pos. organism readily oxidized III when grown on I, and crude cell exts. oxidized both I and III in the presence of an NADPH-generating system. The *Pseudomonas* species readily oxidized III, but not II, when grown on I; II-grown cells oxidized II but not I.